

Yeast Protocols Handbook

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III. Culturing and Handling Yeast

For additional information on yeast, we recommend Guthrie and Fink (1991) *Guide to Yeast Genetics and Molecular Biology* (Cat No. V2010-1).

A. Yeast Strain Maintenance, Recovery from Frozen Stocks, and Routine Culturing

1. Long-term storage

- Yeast strains can be stored indefinitely in YPD medium with 25% glycerol at -70°C . For storage >1 year, the temperature must be maintained below -55°C .

- Transformed yeast strains are best stored in the appropriate SD dropout medium to keep selective pressure on the plasmid. (See Appendix C.A for recipes and Appendix E for plasmid information.)

To prepare new glycerol stock cultures of yeast:

- a. Use a sterile inoculation loop to scrape an isolated colony from the agar plate.
- b. Resuspend the cells in 200–500 μl of YPD medium (or the appropriate SD medium) in a 1.5-ml microcentrifuge tube. Vortex tube vigorously to thoroughly disperse the cells. Add sterile 50% glycerol to a final concentration of 25%.
- c. Tightly close the cap. Shake the vial before freezing at -70°C .